

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :
Frederic Maurice NAUD et al. : **Mail Stop: PCT**
Serial No. 10/536,883 : Attorney Docket No. 2005-0669A
Filed June 1, 2005 :

CATALYTIC HYDROGENATION OF
CARBON-HETEROATOM DOUBLE BONDS
[Corresponding to PCT/EP2003/050902
Filed November 27, 2003]

THE COMMISSIONER IS AUTHORIZED
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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- ☒ each U.S. Patent and U.S. Patent application publication;
- ☐ each reference previously cited in the international application PCT/_____; and/or
- ☐ each reference previously cited in prior parent application Serial No.

1a. ☒ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, **or**

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified

a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.
4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a. ☐ a full or partial English language translation submitted herewith,
 - b. ☐ a foreign patent office search report (in the English language) submitted herewith,
 - c. ☐ the concise explanation contained in the specification of the present application at page,
 - d. ☐ the concise explanation set forth in the attached English language abstract,
 - e. ☐ the concise explanation set forth below or on a separate sheet attached to the reference:
5. ☒ A foreign patent office search report (International Search Report) citing one or more of the references is of record.

Respectfully submitted,

Frederic Maurice NAUD et al.

By:



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August 31, 2005

INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: August 31, 2005

ATTY DOCKET NO.
2005-0669ASERIAL NO.
10/536,883APPLICANT
Frederic Maurice NAUD et al.FILING DATE
June 1, 2005

GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	2003/0199713	10/2003	Berg Van Den et al.			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ	02/22526	3/2002	WO			
	AK	02/04466	1/2002	WO			
	AL						
	AM						
	AN						

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	Yasuyoshi Arikawa et al., "Ruthenium (II)-catalyzed asymmetric transfer hydrogenation of ketones using chiral oxazolinylferrocenylphosphines and one of their Ru(II) complex", Journal of Organometallic Chemistry, 572, pages 163-168, 1999.
	AP	Yoshiaki Nishibayashi et al., "Extremely High Enantioselective Redox Reaction of Ketones and Alcohols Catalyzed by RuCl ₂ (PPh ₃) (oxazolinylferrocenylphosphine), Organometallics, 18, pages 2291-2293, 1999.
	AQ	Kamaluddin Abdur-Rashid, et al., "Ruthenium Dihydride RuH ₂ (PPh ₃) ₂ ((R, R)-cyclohexyldiamine) and Ruthenium Monohydride RuHCl(PPh ₃) ₂ ((R, R)-cyclohexyldiamine): Active Catalyst and Catalyst Precursor for the Hydrogenation of Ketones and Imines", Organometallics, 19, pages 2655-2657, 2000.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of form with next communication to applicant.